

UTILITY PATENT APPLICATION TRANSMITTAL

Submit an original and a duplicate for fee processing
(Only for new nonprovisional applications under 37 CFR 1.53(b))

ADDRESS TO:

Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

Attorney Docket No. 189334
First Named Inventor Wayne Breda et al.
Express Mail No. EM195933555US
Total Pages 17

APPLICATION ELEMENTS

1. ☒ Transmittal Form with Fee
2. ☒ Specification (including claims and abstract) [Total Pages 12]
3. ☒ Drawings [Total Sheets 5]
4. ☐ Combined Declaration and Power of Attorney [Total Pages]
 - a. ☐ Newly executed
 - b. ☐ Copy from prior application

[Note Box 5 below]

 - i. ☐ Deletion of Inventor(s) Signed statement attached deleting inventor(s) named in the prior application
5. ☐ Incorporation by Reference: The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Microfiche Computer Program
7. ☐ Nucleotide and/or Amino Acid Sequence Submission
 - a. ☐ Computer Readable Copy
 - b. ☐ Paper Copy
 - c. ☐ Statement verifying above copies

ACCOMPANYING APPLICATION PARTS

8. ☐ Assignment Papers
9. ☐ Power of Attorney
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement (IDS)
 - ☐ PTO-1449 Form
 - ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (Should be specifically itemized)
14. ☒ Small Entity Statement(s)
 - ☒ Enclosed
 - ☐ Statement filed in prior application; status still proper and desired
15. ☐ Certified Copy of Priority Document(s)
16. ☐ Other:

17. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information in (a) and (b) below:
- (a) ☒ Continuation of two prior design applications Serial Nos. (not known) filed January 26, 1999, Attorney Docket Nos. 200017 and 200018.
 - (b) Preliminary Amendment: Relate Back - 35 USC 120. The Commissioner is requested to amend the specification by inserting the following sentence before the first line:
"This is a ☐ continuation ☐ divisional of copending application(s)
☐ Serial No. , filed on
☐ International Application, filed on , and which designates the U.S."

APPLICATION FEES

APPLICATION FEES				
BASIC FEE				\$760.00
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	
Total Claims	23	-20=	3	x \$18.00 \$54.00
Independent Claims	2	-3=	0	x \$78.00 \$0
<input type="checkbox"/> Multiple Dependent Claims(s) if applicable				+\$260.00 \$0
Total of above calculations =				\$814.00
Reduction by 50% for filing by small entity =				\$(407.00)
<input type="checkbox"/> Assignment fee if applicable				+ \$40.00 \$
TOTAL =				\$407.00

UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No. 189334

19. ☐ Please charge my Deposit Account No. 12-1216 in the amount of \$.
20. ☒ A check in the amount of \$407.00 is enclosed.
21. The Commissioner is hereby authorized to credit overpayments or charge any additional fees of the following types to Deposit Account No. 12-1216:
- a. ☒ Fees required under 37 CFR 1.16.
 - b. ☒ Fees required under 37 CFR 1.17.
 - c. ☐ Fees required under 37 CFR 1.18.
22. ☒ The Commissioner is hereby generally authorized under 37 CFR 1.136(a)(3) to treat any future reply in this or any related application filed pursuant to 37 CFR 1.53 requiring an extension of time as incorporating a request therefor, and the Commissioner is hereby specifically authorized to charge Deposit Account No. 12-1216 for any fee that may be due in connection with such a request for an extension of time.

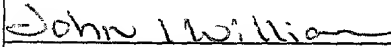

23. CORRESPONDENCE ADDRESS

Noel I. Smith, Registration No. 18698
Leydig, Voit & Mayer, Ltd.
Two Prudential Plaza, Suite 4900
180 North Stetson
Chicago, Illinois 60601-6780
Telephone: (312) 616-5600
Facsimile: (312) 616-5700

Name	Noel I. Smith
Signature	
Date	January 27, 1999

Certificate of Mailing Under 37 C.F.R. 1.10

I hereby certify that this Utility Patent Application Transmittal and all accompanying documents are being deposited with the United States Postal Service "Express Mail Post Office To Addressee" Service under 37 C.F.R. 1.10 on the date indicated below and is addressed to: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

		January 27, 1999
Name of Person Signing	Signature	Date

Applicant or Patentee: Wayne J. Breda and Bradley Piper
Serial or Patent No.:
Filed or Issued: Herewith
For: Intravenous Equipment Hangers

**VERIFIED STATEMENT (DECLARATION)
CLAIMING SMALL ENTITY STATUS
37 C.F.R. §§ 1.9(f) & 1.27(b) - INDEPENDENT INVENTOR**

As below-named inventors, we hereby declare that we qualify as independent inventors as defined in 37 C.F.R. § 1.9(c), for purposes of paying reduced fees under Sections 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled:

INTRAVENOUS EQUIPMENT HANGERS

described in:

- ☒ The specification filed herewith.
- ☐ Application Serial No. , filed .
- ☐ Patent No. , issued .

Others Having Rights In The Invention

We have not assigned, granted, conveyed, or licensed, and we are not under any obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 C.F.R. § 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 C.F.R. § 1.9(d) or a nonprofit organization under 37 C.F.R. § 1.9(e).

Each person, concern, or organization to which we have assigned, granted, conveyed, or licensed or are under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- ☒ no such person, concern, or organization.
- ☐ persons, concerns, or organizations listed below. (NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to his/her/its status as a small entity.)
- ☒ This invention may be used by Veterinary Environmental Technologies, Inc. of LaGrange, Illinois, of which Wayne J. Breda is President and Bradley Piper is Vice President, and which qualifies as a small business concern as defined in 13 C.F.R. § 121.3-18, and reproduced in 37 C.F.R. § 1.9(d), for purposes of paying reduced fees under Sections 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement: (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons

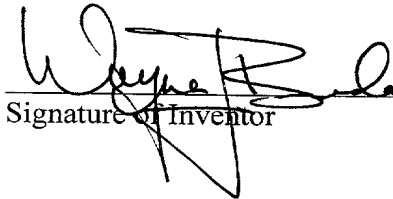
employed on a full-time, part-time, or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either directly or indirectly one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

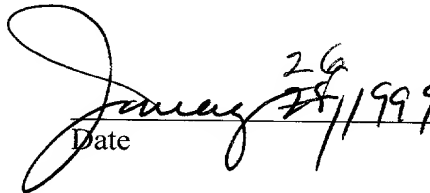
☐ Individual ☒ Small Business Concern ☐ Nonprofit Organization

We acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 C.F.R. § 1.28(b)).

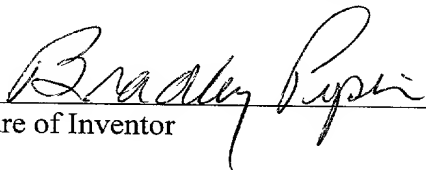
We hereby declare that all statements made herein of our own knowledge are true, that all statements made on information and belief are believed to be true, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

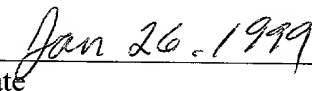
Name of Inventor: Wayne J. Breda


Signature of Inventor


Date

Name of Inventor: Bradley Piper


Signature of Inventor


Date



A

SPECIFICATION

TO ALL WHOM IT MAY CONCERN:

Be it known that We, Wayne J. Breda, citizen of the United States of America, and residing at 5 Tuttle Avenue, Clarendon Hills, Illinois 60514, and Bradley Piper, a citizen of the United States of America, and residing at 518 So. Spring Ave., LaGrange, Illinois 60525, have invented a certain new and useful INTRAVENOUS EQUIPMENT HANGERS of which the following is a specification.

INTRAVENOUS EQUIPMENT HANGERS

RELATED PATENT APPLICATIONS

5 This is a continuation of our two copending design patent applications each entitled Intravenous Equipment Hanger and which were signed by us on January 25, 1999, and filed January 26, 1999, under our attorney's docket nos. 200017 and 200018. The disclosures in the above applications are incorporated herein by reference.

FIELD OF THE INVENTION

10 This invention relates to supports for intravenous infusion equipment, and particularly for intravenous fluid supply bags and other containers and intravenous fusion pumps. Most particularly, it is concerned with such supports for the suspension of the intravenous equipment on partitions which
15 define the space that houses the patient, and especially on the doors of animal cages and on the walls of rooms.

BACKGROUND OF THE INVENTION

Many patients, both animal and human, are treated by injecting fluids
20 intravenously from fluid containers and through infusion metering pumps, both of which must be supported near the patient. Such containers and pumps typically are mounted on free-standing poles mounted on caster supports for convenient portability. In other instances, the supply containers are mounted on stands attached to gurneys or are hung from beds, rails or other structures.
25 In the instances of animals being treated while confined in cages, special support and security considerations are involved.

It is an object of this invention to provide improved and simple supports for intravenous infusion equipment near a patient, and particularly hangers that are easily and securely mountable on cage doors, walls and other partitions.

30

SUMMARY OF THE INVENTION

An intravenous ("IV") infusion equipment hanger assembly is provided comprising at least one mounting member that is designed for attachment to a partition wall in a generally vertical position, whereby the mounting member
35 defines a generally vertical plane when so attached. A hanger which includes

an elongate telescopic pole with engagement elements on that pole for supporting IV fluid containers, such as IV bags, on the upper end of the pole, is supported on the mounting member by an offset support arrangement that engages and extends laterally between the pole and the mounting member.

- 5 Thereby the pole is supported generally parallel to the first plane and in a vertical position and spaced laterally from the mounting member in a manner that permits conveniently affixing a typical infusion pump on the pole. The offset arrangement permits ready access for a caregiver person to attach the infusion pump and hang the IV containers without significant interference with
10 or engagement by the mounting member or the partition on which it is supported.

- In one preferred embodiment, the mounting member is an inverted J-shaped hanger for hooking over the upper edge of a partition or the like, and especially over the top edge of a door or other partition that defines an animal
15 cage or other animal enclosure. Such partitions typically are fabricated of steel wire, rods or bars that provide an open or foraminous construction. A latch pin may be included in association with the upper portion of the mounting member to assure retention of the support on the partition. Also, a further securing latch may be included for securing a lower portion of the mounting member to the
20 partition, particularly when the assembly is being mounted on a cage door.

- In other preferred embodiments, especially for mounting on a fixed wall or partition of a hospital room or the like, the mounting member may be affixed directly to the wall. The hanger subassembly, including the offset supports, either is permanently affixed to this mounting member or preferably detachably
25 engages the mounting member so that the hanger subassembly may be readily removed when not in use. This avoids obstruction of the space by the hanger equipment when not in use and also permits use of the hanger subassembly in a number of different locations with other pre-mounted mounting members.

- These and other features and advantages of the invention will be more
30 readily apparent upon reading the following description of a preferred exemplified embodiment of the invention and upon reference to the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

- FIG. 1 is an upper right front perspective view of an intravenous
35 infusion equipment hanger assembly employing teachings of this invention, as

mounted on a wire bar cage partition that is shown in dashed lines, and with the telescopic hanger bar illustrated in two positions.

FIG. 2 is an upper right rear perspective view of the apparatus of FIG. 1.

FIG. 3 is a front elevational view thereof and showing in dashed lines an
5 infusion pump mounted on the hanger pole.

FIG. 4 is a right side elevational view of the equipment of FIG. 3.

FIG. 5 is a top view of the equipment of FIG. 3.

FIG. 6 is an upper right front perspective view of another embodiment of
an intravenous equipment hanger assembly employing teachings of this
10 invention with the telescopic hanger bar illustrated in two different positions.

FIG. 7 is an upper right rear perspective view of the assembly of FIG. 6.

FIG. 8 is an upper right front perspective view of another embodiment of
an intravenous equipment hanger assembly employing teachings of this
invention with the telescopic hanger bar illustrated in two different positions.

FIG. 9 is an upper right rear perspective view of the assembly of FIG. 6.
15

FIG. 10 is an upper right front perspective view of another intravenous
equipment hanger assembly employing teachings of this invention, with the
telescopic hanger bar in two different positions.

FIG. 11 is an upper right front perspective view of the hanger unit of the
20 assembly of FIG. 10.

FIG. 12 is an upper right front perspective view of the mounting support
of the assembly of FIG. 10.

While the invention will be further described in connection with certain
preferred embodiments, it is not intended to limit the invention to those
25 embodiments. On the contrary, it is intended to cover all alternatives,
modifications and equivalents as may be included within the spirit and scope of
the invention.

30 DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

FIGS. 1-5 illustrate an intravenous equipment hanger assembly 20 that is
mounted on a wire bar partition panel 22 that represents, for example, the door
of an animal cage such as is often found in veterinary clinics. The hanger
assembly 20 includes an inverted J-shaped mounting member 24 and a hanger

subassembly 25 that includes a telescopic pole 26 which is mounted on the mounting member 24 by a pair of lateral offset support brackets 28a and 28b.

The illustrated mounting member 24 is an integral vertically elongate member that includes a main plate section 30 with a short return flange 32 joined to the main plate body 30 by a laterally extending bight portion 34. The section 30, and the flange 32 and the bight 34 thus define a downwardly open pocket. As will be seen, the member 24 thus forms an inverted J-shape which conveniently hooks over an exposed upper edge of a partition such as the top edge of the cage door panel 22 as shown in the drawings.

The pole 26 is telescopic, comprising a tube section 40 which is affixed to the mounting member 24 by the offset brackets 28a, 28b, and an elongate slide rod section 41 which slides telescopically into the upper end of the tube 40. The rod 41 carries hanger elements 42 on its upper end in the manner of known IV bag hangers. The brackets 28a, 28b are suitably affixed to the tube 26 and to the main plate section 30, as by welding, riveting, adhesive, comolding or other appropriate securement means. In this embodiment the two hanger elements 42 are curled ends or horns at the opposite ends of a single hanger rod element 43 that is affixed to the upper end of the slide rod 41. Another simple alternative configuration for the hanger elements is illustrated by the U-shaped hooks 42a on the rod 43a in FIG. 3. An appropriate means is provided for selectively securing the slide rod 41 in various positions of extension relative to the tube 40 for effecting varied elevational positioning of IV bags or other containers or equipment to be mounted on the support pole. In the illustrated embodiment, the selective securing arrangement is a pin 44 that engages through aligned openings in opposite sides of the tube 40 and selectively engages any one of a plurality openings 46 spaced along the length of the rod 41. A flexible retainer line 48 is attached to the upper offset support 28a and to a ring 50 through the end of the pin 44 for convenient retention of the pin near its point of use.

A detent pin 54 is installed through the legs of the J to limit lateral (side to side) movement and to prevent the mounting member from riding up and off of the partition 22. A retainer line 52 also is attached to the upper support 28a and to a ring 53 that engages through one end of the detent pin 54, which extends through aligned openings in the return leg 32 and the opposing upper portion of the plate 30 at a position spaced from the bite 34. The pin 54 extends

beneath the upper horizontal bar of the partition 22 and thereby assists in preventing inadvertent disengagement of the hanger assembly from the partition 22, as noted above.

As perhaps best seen in FIGS. 2, 3 and 4, a securement latch 55 is provided for further securing the lower portion of the mounting member 24 to the door partition 22. The securement latch includes a crossbar pin 56 affixed to the main plate section 30 and protruding on its rearward side a sufficient distance to extend through the partition 22 between an adjacent pair of the partition bars. The pin 56 is threaded at its distal end. It pivotally mounts a latch bar 58 that is of a sufficiently narrow width to pass between the bars when disposed parallel thereto in a vertical position and of a length to span at least two of the bars when in a horizontal position transverse to the bars as seen in FIG. 2. A knurled nut 60 threadably engages the pin 56 to effect selective clamping engagement of the respective partition bars between the latch bar 58 and the plate section 30. Obviously, other partition-engaging arrangements can be provided, such as a washer and wing nut.

The hanger assembly 20 can be easily attached to a cage door or the like by hanging the assembly over the top edge of such a partition and may be readily secured by the insertion of the detent pin 54 and clamping of the cross bar pin latch 55. Similarly, the assembly can be simply and easily disengaged whereby it may be moved from cage to cage and door to door as needed.

FIGS. 6-9 illustrate two embodiments of our invention, 20A (FIGS. 6 and 7) and 20B (FIGS. 8 and 9), for relatively permanent surface mounting on a partition, such as the wall of a clinic or hospital room. FIGS. 10-12 illustrate an embodiment 20C in which a surface or wall mounted base plate is provided to be attached to a partition, such as a wall of a clinic or hospital, with the hanger subassembly being detachably mounted for convenient quick mounting and easy removal. In each of these embodiments, components which correspond to components of the hanger assembly 20 of FIGS. 1-5 are identified by the same numbers and are not further described.

The embodiment 20A of FIGS. 6 and 7 includes a simple rectangular flat mounting member plate 24A with openings 64 therethrough for passage of appropriate fasteners such as screws, bolts, nails or the like (not shown) for securing the plate 24A to a vertical partition. The offset brackets 28a and 28b are suitably affixed to the mounting plate 24A.

In the embodiment 20B illustrated in FIGS. 8 and 9, each of the two offset brackets 28a includes a vertical flange 24B which serve as a mounting plate member. The flanges 24B are provided with openings 66 therethrough for passage of suitable securing means such as screws, bolts, nails or the like for mounting the assembly 20B on a vertical partition.

The embodiment 20C of FIGS. 10-12 includes a mounting plate 24C that corresponds substantially to the plate 24A of FIG. 6 with the addition of two hat-shaped straps 68 affixed thereto and which define upwardly open pockets 70 to receive depending vertical flanges 72 of the L-shaped setoff brackets 28a. It will be noted that each of the flanges 72 projects downwardly for this purpose. The pockets 70 are of a width and lateral clearance to slidably receive the flanges 72 in a snug secure fitting relationship. The straps 68 are suitably secured to the plate 24C by any suitable means, such as welding, rivets, adhesive, comolding or the like. It will also be seen that the flanges 72 correspond to the downwardly projecting flanges on the offset support brackets 28a in embodiment 20B and that the hanger subassembly 25C may be of the same construction as the hanger assembly 20B of FIGS. 8 and 9. Thus this hanger subassembly may be used either as a fixed installation or for readily detachable mounting such as on a mounting plate 24C.

The mounting member, offset brackets, pole and other components may be fashioned from sheet stainless steel, sheet plastic, stainless steel rod or other appropriate materials. The offset brackets 28a and 28b are suitably affixed to the respective mounting member, as by welding, riveting, adhesive, comolding or the like.

Thus it will be seen that novel and improved intravenous infusion equipment supports have been provided which attain the aforementioned objects. Various additional modifications of the embodiments specifically illustrated and described herein will be apparent to those skilled in the art, particularly in light of the teachings of this invention. The invention should not be construed as limited to the specific forms shown and described, but instead is set forth in the following claims.

What is claimed is:

1. An intravenous infusion equipment hanger assembly comprising:
 at least one mounting member for attachment to a support in a generally
 5 vertical position and defining a generally vertical first plane when so attached,
 a hanger which includes an elongate pole for supporting an intravenous
 infusion device, and
 at least one offset support engaging and extending laterally from said
 pole and joined to said mounting member for supporting said hanger generally
 10 parallel to said first plane, with said pole in a generally vertical position when
 said support member is so supported, and spaced laterally from said mounting
 member.
2. An intravenous equipment hanger assembly as in claim 1 wherein
 15 said pole is spaced from said mounting member a sufficient distance to
 accommodate convenient mounting and removal of an intravenous infusion
 pump on said pole by a caregiver person.
3. An intravenous equipment hanger assembly as in claim 1
 20 including engagement elements on said pole for supporting intravenous
 infusion equipment thereon.
4. An intravenous equipment hanger assembly as in claim 3
 wherein said lateral spacing of said pole from said mounting member provides
 25 space for supporting intravenous fluid supply containers and an intravenous
 infusion pump on said pole without engaging said mounting member.
5. An intravenous equipment hanger assembly as in claim 1 wherein
 said mounting member comprises a plate.
- 30 6. An intravenous equipment hanger assembly as in claim 5 wherein
 said plate has openings therethrough for passage of fasteners for affixing said
 plate to a wall.

7. An intravenous equipment hanger assembly as in claim 1 wherein said mounting member defines a downwardly open pocket on the side thereof opposite said hanger whereby said hanger assembly is engagable over the top of a partition for supporting said hanger assembly on such a partition.

5

8. An intravenous equipment hanger assembly as in claim 7 including a latch mounted on said mounting member in spaced relation to said pocket for securing said mounting member to such a partition at a point spaced from said pocket.

10

9. An intravenous equipment hanger assembly as in claim 8 including a lock element extending transversely through said pocket for locking said mounting member on a partition.

15

10. An intravenous equipment hanger assembly as in claim 1 wherein said mounting member is of an inverted J configuration including a main leg, a bight and a return leg, with the bight and return leg of such mounting member being on the side of said main leg opposite said hanger.

20

11. An intravenous equipment hanger assembly as in claim 1 wherein said mounting member is of an inverted J configuration including a main leg, a bight and a return leg, with the bight and return leg of such mounting member being on the side of said main leg opposite said hanger for hanging said assembly on a partition of an animal confining housing with said main leg and said pole on the external side of such partition on which said hanger assembly is mounted, and including a latch mounted on said mounting member in spaced relation to said bight for securing said mounting member to such a partition.

25

12. An intravenous equipment hanger assembly as in claim 11 wherein said latch is of a configuration for movement between bars of an animal cage in a first position and movable to a second position to overlies and engage at least one such bar for securement of said mounting member to such a cage at a point spaced substantially below said bight when said assembly is mounted on an animal cage.

35

13. An intravenous equipment hanger assembly as in claim 11 including a lock element extending through said return leg in spaced relation to said bight for locking said mounting member on a cage.

5 14. An intravenous equipment hanger assembly as in claim 3 wherein said hanger is detachably mounted on said mounting member.

10 15. An intravenous equipment hanger assembly as in claim 1 wherein said offset support includes a flange leg disposed generally parallel to said first plane.

15 16. An intravenous equipment hanger assembly as in claim 15 wherein said mounting member defines at least one mounting pocket for receiving said flange leg and thereby supporting said hanger on said mounting member.

20 17. An intravenous equipment hanger assembly as in claim 15 wherein said mounting pocket is open upward when said mounting member is mounted on a wall and said flange leg extends downward when said hanger is oriented in a generally vertical operative hanger position and wherein said flange leg is slidably receivable in said mounting pocket for removably supporting said hanger on said mounting member.

25 18. An intravenous equipment hanger assembly as in claim 1 which includes a plurality of said offset supports, each of said offset supports including a mounting flange leg at its distal end and which is disposed generally parallel to said first plane.

30 19. An intravenous equipment hanger assembly as in claim 18 wherein each of said flange legs has openings therethrough for passage of fasteners for affixing said flange legs to a wall.

20. An intravenous equipment hanger assembly as in claim 18 wherein each of said offset supports is a generally L shaped bracket which includes a first leg affixed to and extending generally normal to said pole and a distal leg which extends generally parallel to said first plane.

5

21. An intravenous equipment hanger assembly as in claim 18 wherein said mounting member defines a plurality of mounting pockets which are open upward when said mounting member is mounted on a wall and said flange legs extend downward when said hanger is oriented in a generally vertical operative hanger position and wherein said flange legs are slidably receivable in said mounting pockets for removably supporting said hanger on said mounting member.

10

22. An intravenous equipment hanger assembly as in claim 1 wherein said pole includes multiple telescopically engaged sections and means for securing said sections in selected positions of extension of one of said sections relative to another of said sections.

15

23. A method of supporting intravenous infusion equipment for treatment of a patient located in an enclosure defined by partitions, comprising the steps of removably attaching an intravenous support pole to one of said partitions in generally parallel relation to such partition and spaced from said partition a sufficient distance to accommodate hanging of at least one intravenous fluid container and an intravenous infusion pump on said pole free of engagement of said partition thereby, hanging at least one of an intravenous fluid container and an intravenous pump on said pole, and infusing fluid intravenously from said at least one of said intravenous fluid container and intravenous pump into such a patient when confined in said enclosure.

20

25

30

ABSTRACT OF THE DISCLOSURE

An intravenous ("IV") infusion equipment hanger assembly is provided comprising at least one mounting plate member designed for attachment to a partition wall in a generally vertical position. A hanger which includes an elongate telescopic pole with engagement elements for hanging IV fluid containers is supported on the mounting member by an offset support arrangement that engages and extends laterally between the pole and the mounting member. Thereby the pole is spaced laterally from the mounting member in a manner that permits ready access for a caregiver person to attach the infusion pump and hang the IV containers without significant interference with or engagement by the mounting member or the partition on which it is supported. In one embodiment, the mounting member is an inverted J-shaped hanger for hooking over the upper edge of the door of an animal cage. A detent pin through the J portion of the mounting member assures retention of the support on the partition. A second latch secures a lower portion of the mounting member to the cage door. In other embodiments, the mounting member is affixed directly to the wall of a hospital room or the like, with the hanger subassembly either permanently or detachably affixed to this mounting member.

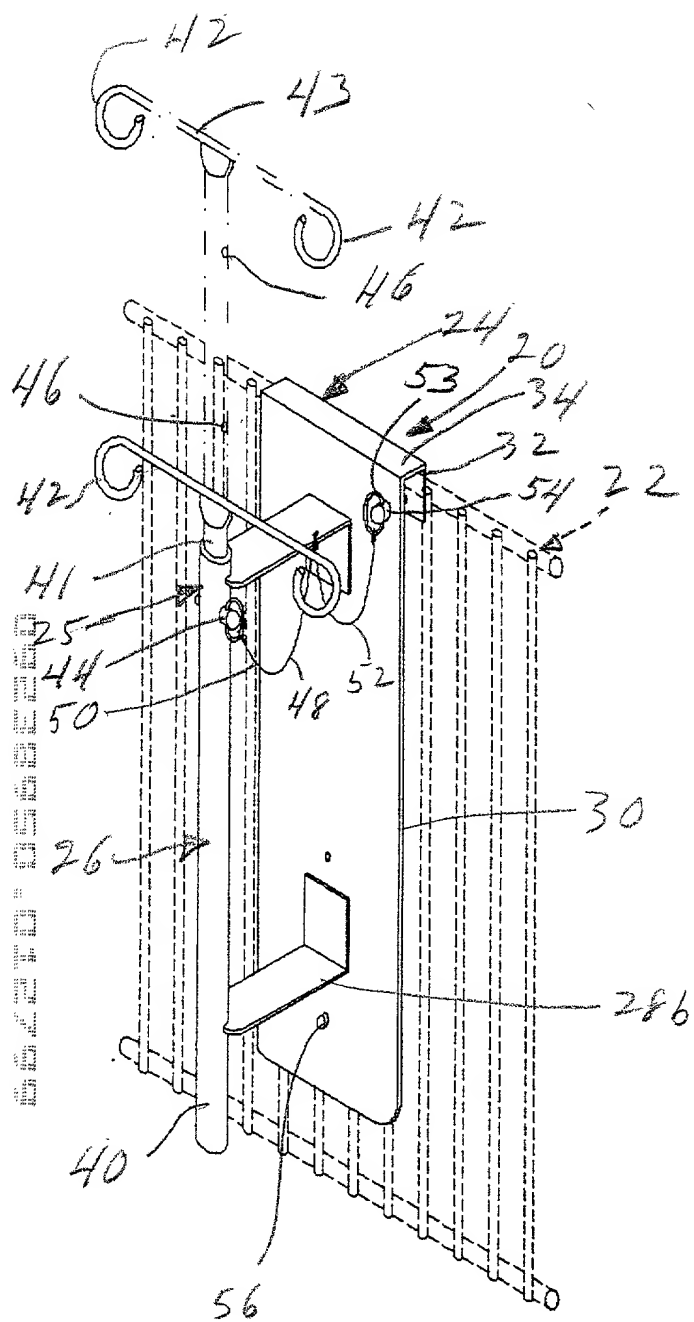


FIG. 1

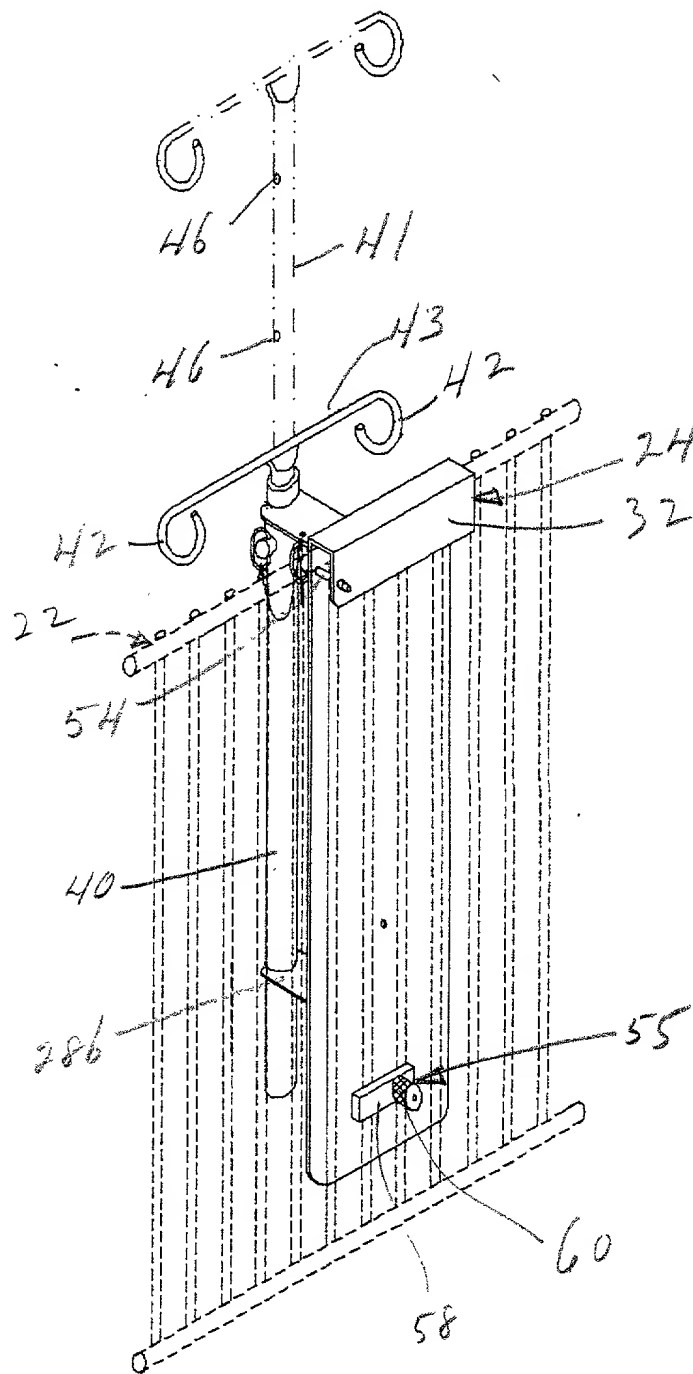
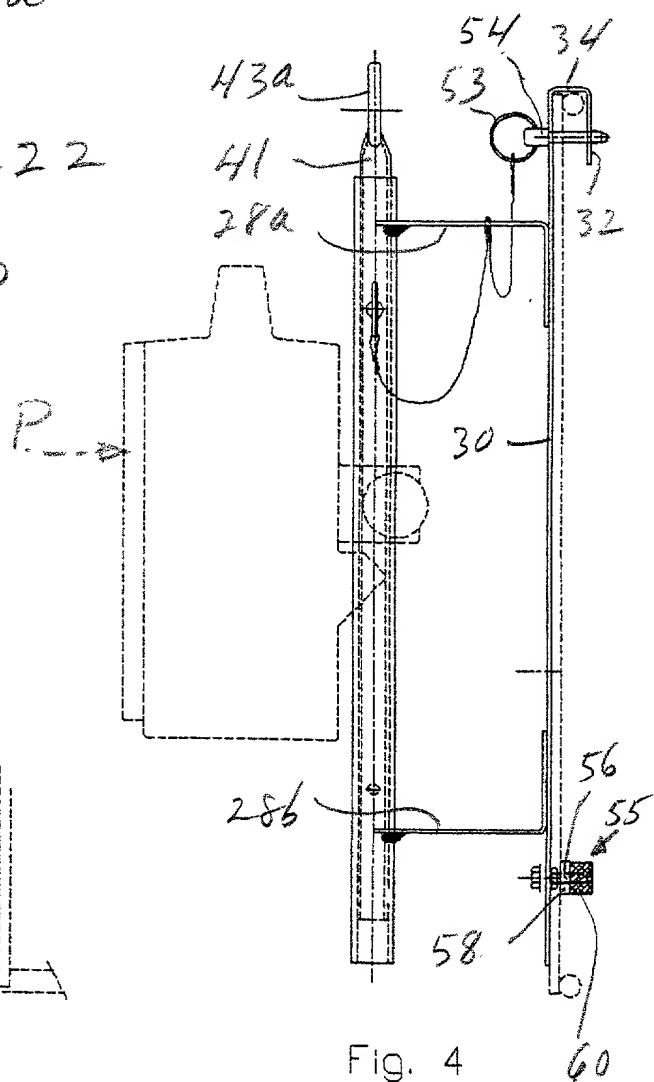
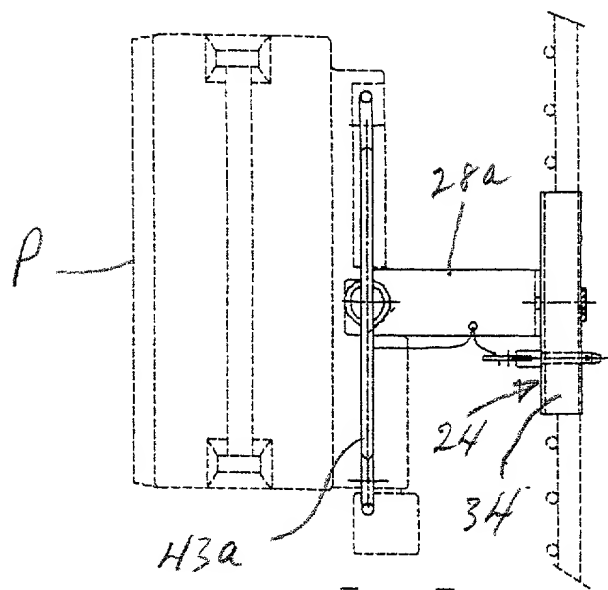
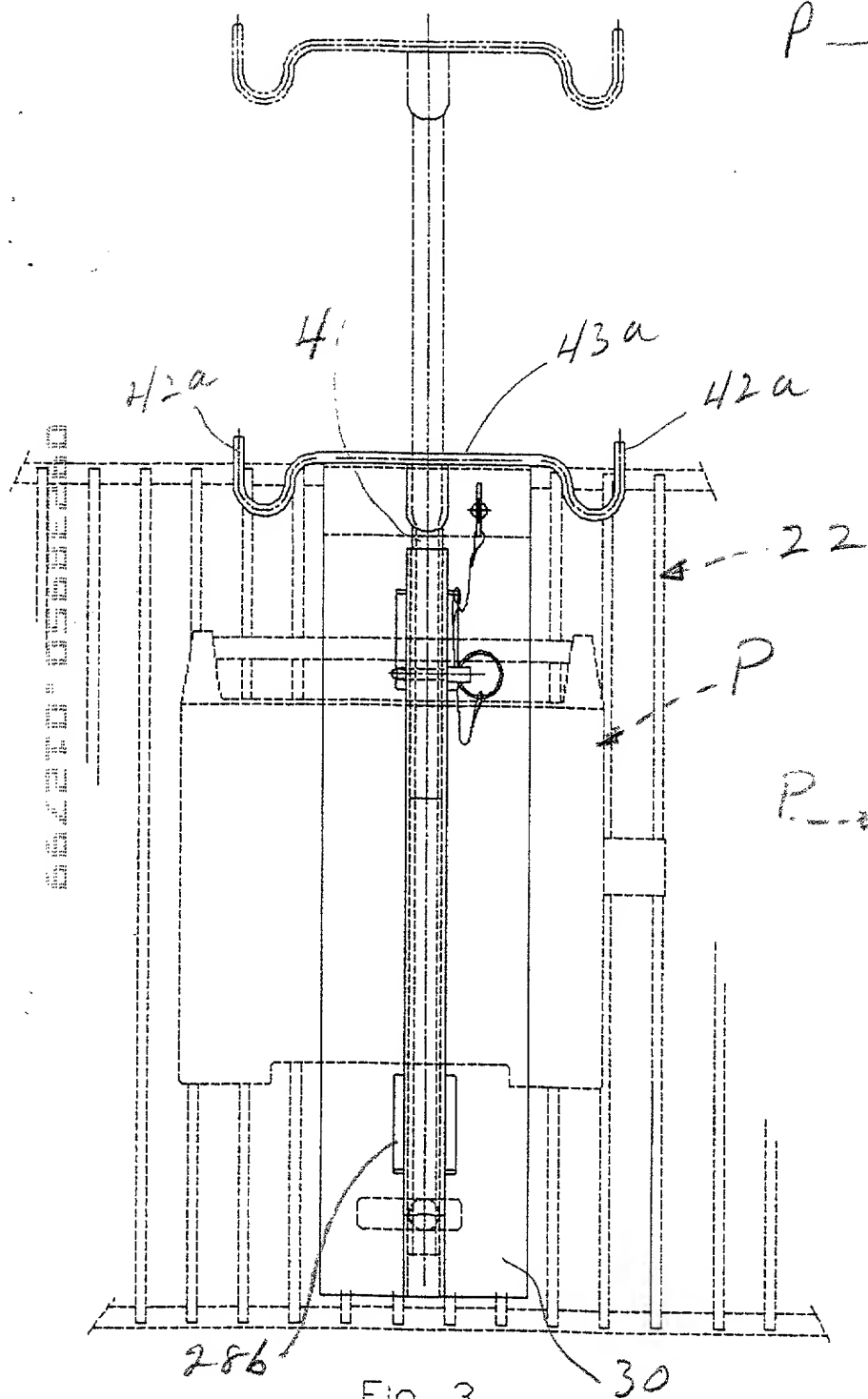


FIG. 2



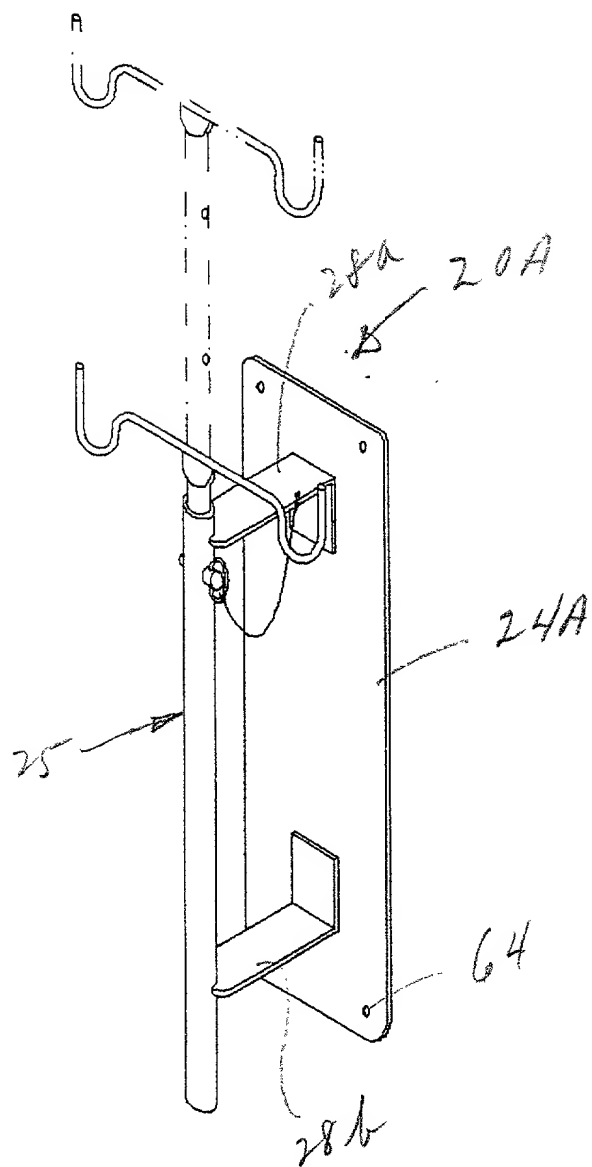


FIG. 6

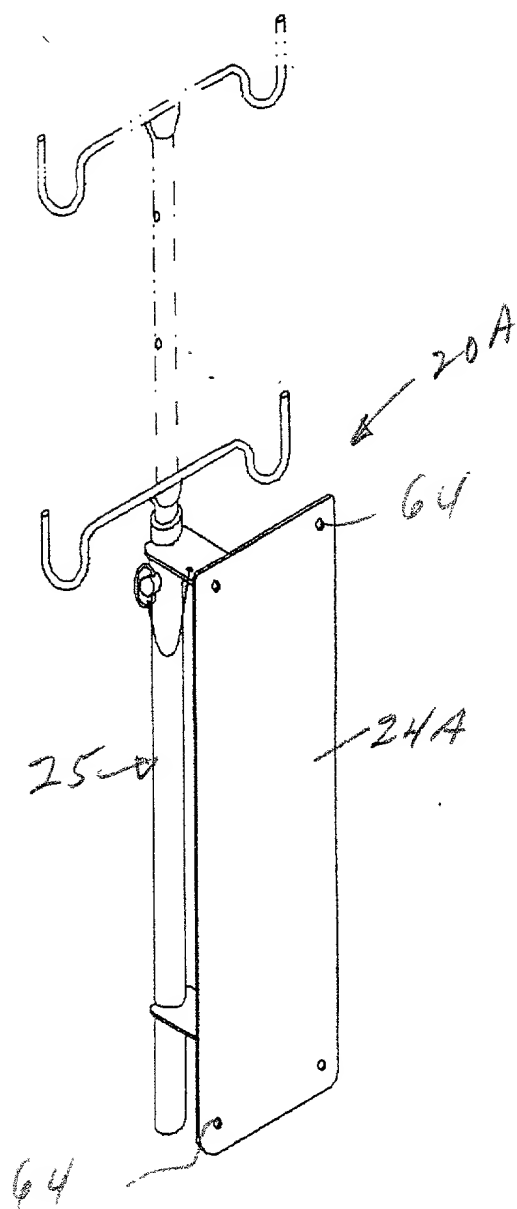


FIG. 7

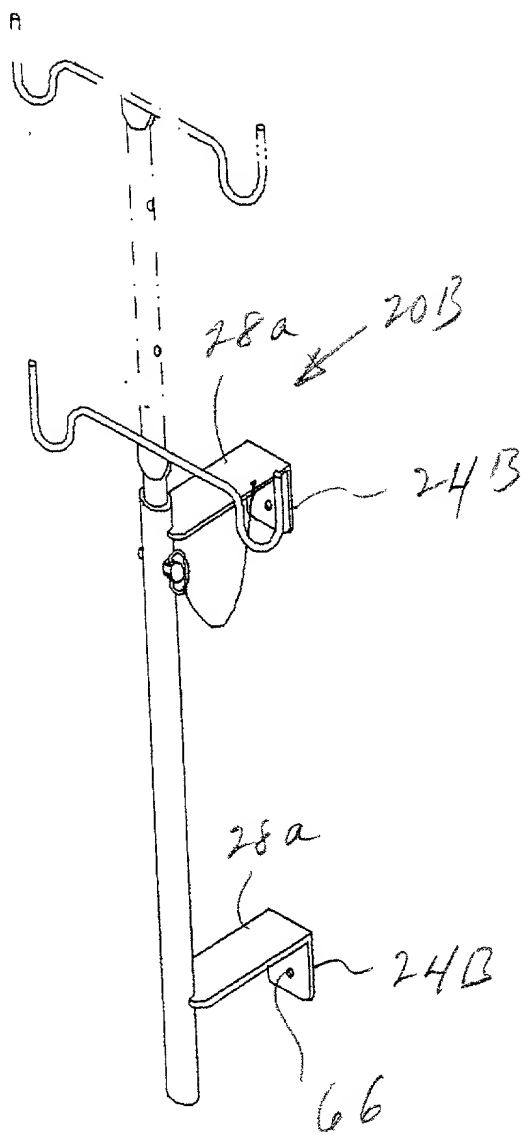


FIG. 8

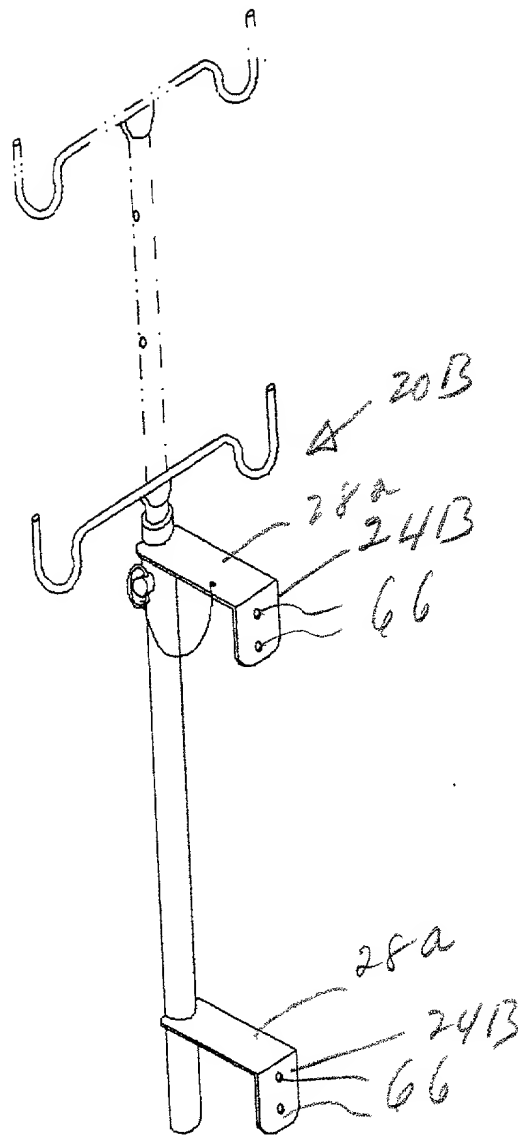


FIG. 9

